

Title (en)
ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME

Title (de)
ELEKTROLYTLÖSUNG FÜR LITHIUMSEKUNDÄRBATTERIE UND LITHIUMSEKUNDÄRBATTERIE DIESELBE UMFASSEND

Title (fr)
SOLUTION D'ÉLECTROLYTE POUR BATTERIE SECONDAIRE AU LITHIUM ET BATTERIE SECONDAIRE AU LITHIUM LA COMPRENANT

Publication
EP 4075560 A1 20221019 (EN)

Application
EP 22163609 A 20220322

Priority
KR 20210047942 A 20210413

Abstract (en)
An electrolyte solution for a lithium secondary battery includes an organic solvent, a lithium salt, and an additive including a compound represented by Chemical Formula 1. A lithium secondary includes the electrolyte solution and has improved capacity retention at room temperature and high temperature storage properties such as increased capacity retention and capacity recovery and an suppressed resistance and thickness.

IPC 8 full level
H01M 10/0567 (2010.01); **H01M 10/0525** (2010.01); **H01M 10/42** (2006.01)

CPC (source: CN EP KR US)
H01M 10/052 (2013.01 - CN KR US); **H01M 10/0525** (2013.01 - EP); **H01M 10/0567** (2013.01 - CN EP KR US); **H01M 10/0568** (2013.01 - US); **H01M 10/0569** (2013.01 - US); **H01M 10/4235** (2013.01 - CN EP); **H01M 2300/0025** (2013.01 - EP); **H01M 2300/0028** (2013.01 - US)

Citation (applicant)
KR 20190119615 A 20190927

Citation (search report)

- [A] EP 1739784 A1 20070103 - BRIDGESTONE CORP [JP]
- [A] CN 111430794 A 20200717 - NINGDE AMPEREX TECHNOLOGY LTD & EP 3876329 A1 20210908 - NINGDE AMPEREX TECHNOLOGY LTD [CN]
- [A] EP 3758123 A1 20201230 - SK INNOVATION CO LTD [KR]
- [A] CN 109585924 A 20190405 - SOUNDON NEW ENERGY TECH CO LTD

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4075560 A1 20221019; CN 115207464 A 20221018; KR 20220141615 A 20221020; US 2022328876 A1 20221013

DOCDB simple family (application)
EP 22163609 A 20220322; CN 202210285667 A 20220322; KR 20210047942 A 20210413; US 202217718813 A 20220412